

CLAIMS

(1) A resonator comprising a dielectric layer and conductor layers,

5 wherein a plurality of conductor layers partially insulated from each other by the dielectric layer are disposed, and at least two conductor openings free from any of the conductor layers in a laminate direction in which the dielectric layer and the conductor layers are laminated are formed as
10 inductive areas, and a portion where the conductor layers oppose each other with the dielectric layer therebetween in the laminate direction, the portion being interposed between the inductive areas, is formed as a capacitive area.

(2) The resonator according to claim 1, wherein a plurality
15 of the inductive areas and a plurality of the capacitive areas are disposed in a laminated body including the dielectric layer and the conductor layers, and a plurality of sets, each set including the inductive areas and the capacitive area interposed between the inductive areas, are
20 disposed.

(3) The resonator according to claim 1 or 2, wherein a plurality of the capacitive areas are disposed adjacent to each other in the laminate direction, and a capacitance of the capacitive area disposed at an outermost side in the
25 laminate direction is set to be greater than a capacitance

of the capacitive area disposed at an inner side in the laminate direction.

(4) The resonator according to claim 3, wherein the capacitances of the plurality of capacitive areas are set to
5 be progressively greater as the capacitive area goes from the inner side toward the outer side in the laminate direction.

(5) A filter comprising the resonator set forth in any one of claims 1 to 4 and signal input/output means coupled to
10 the resonator.

(6) A communication apparatus comprising the resonator set forth in any one of claims 1 to 4 or a filter set forth in claim 5.